

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043020\
 Data File : VU037950.D
 Acq On : 30 Apr 2020 13:49
 Operator : JC/MD
 Sample : L2321-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 01 02:19:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM043020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 01 02:16:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	632005	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	629215	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	304497	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	285785	51.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.82%
7) Chloroethane-d5	1.91	69	231139	51.11	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.22%
11) 1,1-Dichloroethene-d2	2.58	63	345372	37.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.96%
21) 2-Butanone-d5	4.66	46	369860	85.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	85.13%
24) Chloroform-d	5.10	84	427625	49.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.36%
26) 1,2-Dichloroethane-d4	5.74	65	310789	51.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.96%
32) Benzene-d6	5.76	84	956811	51.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.18%
36) 1,2-Dichloropropane-d6	6.72	67	316176	51.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.84%
41) Toluene-d8	7.92	98	877416	51.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.14%
43) trans-1,3-Dichloropropene-	8.20	79	149594	51.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.76%
47) 2-Hexanone-d5	8.66	63	285112	106.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.61%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	449953	50.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.56%
64) 1,2-Dichlorobenzene-d4	12.21	152	328231	51.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	660823	104.361	ug/L	98
8) Chloroethane	1.93	64	260006	68.276	ug/L	98
9) Trichlorofluoromethane	2.14	101	387743	58.916	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3934	0.973	ug/L #	44
13) Acetone	2.66	43	11427	4.083	ug/L	72
15) Methyl Acetate	2.98	43	8086	1.327	ug/L	92
17) trans-1,2-Dichloroethene	3.38	96	256370	57.366	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	1529200	102.840	ug/L	100
20) cis-1,2-Dichloroethene	4.70	96	129445	26.196	ug/L	99
22) 2-Butanone	4.74	43	19408	4.285	ug/L	98
25) Chloroform	5.12	83	288617	33.773	ug/L	99
27) 1,2-Dichloroethane	5.83	62	313400	44.350	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	366730	52.434	ug/L	99
31) Carbon tetrachloride	5.35	117	45781	8.292	ug/L	98
33) Benzene	5.81	78	1448210	73.625	ug/L	100
34) Trichloroethene	6.57	95	459208	96.275	ug/L	99
37) 1,2-Dichloropropane	6.82	63	282138	53.649	ug/L	100

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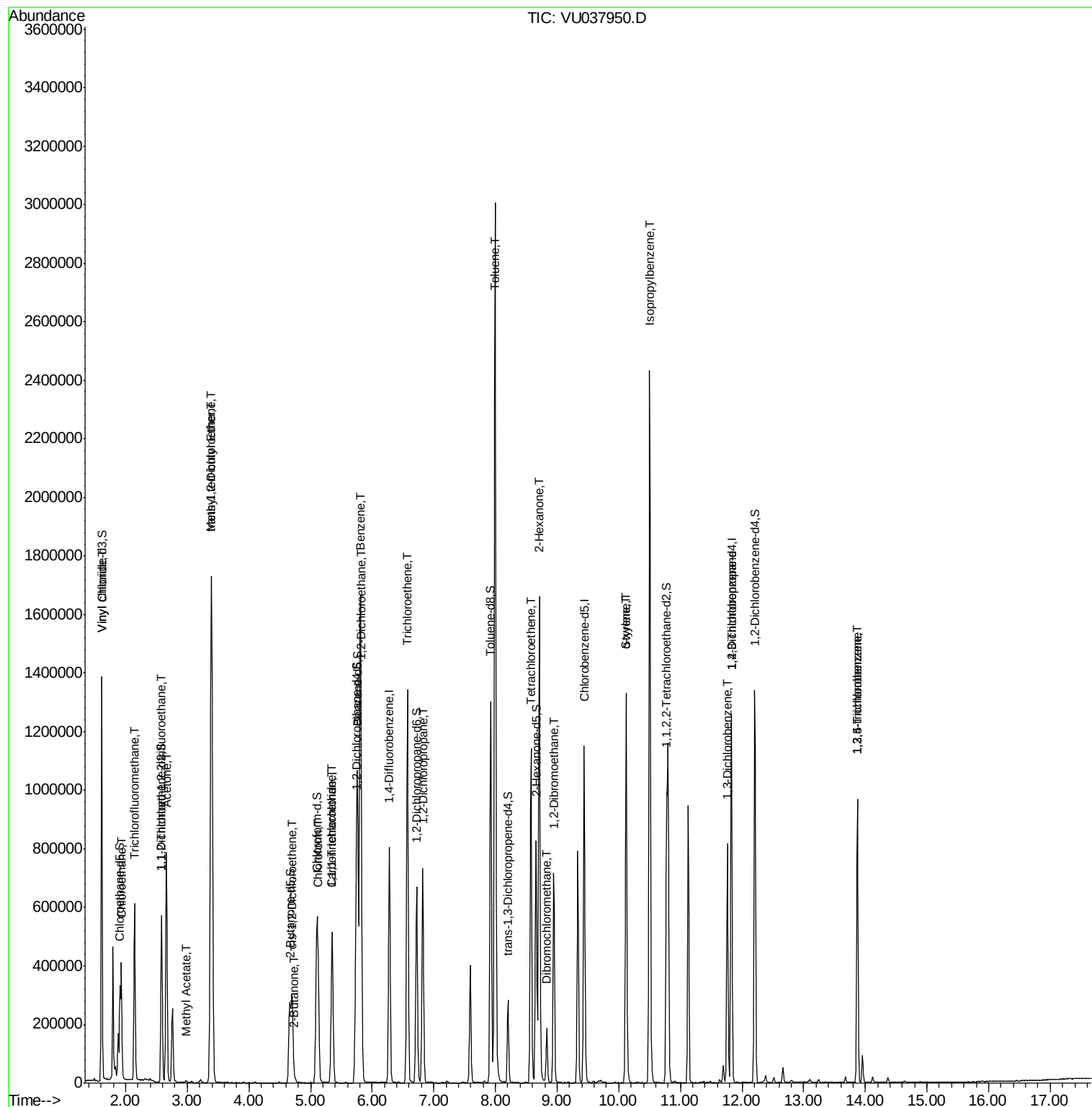
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	2229439	107.880	ug/L	99
46) Tetrachloroethene	8.57	164	245413	70.472	ug/L	99
48) 2-Hexanone	8.71	43	1059513	150.885	ug/L	98
49) Dibromochloromethane	8.83	129	88347	19.233	ug/L	99
50) 1,2-Dibromoethane	8.95	107	468702	91.606	ug/L	97
54) o-xylene	10.12	106	371504	43.381	ug/L	97
55) Styrene	10.12	104	19854	1.365	ug/L #	1
56) Isopropylbenzene	10.50	105	1626899	73.781	ug/L	100
59) 1,2,3-Trichloropropane	11.83	75	45099	6.185	ug/L	96
62) 1,3-Dichlorobenzene	11.76	146	315145	32.326	ug/L	99
67) 1,3,5-Trichlorobenzene	13.87	180	274114	41.244	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	274114	43.029	ug/L	99

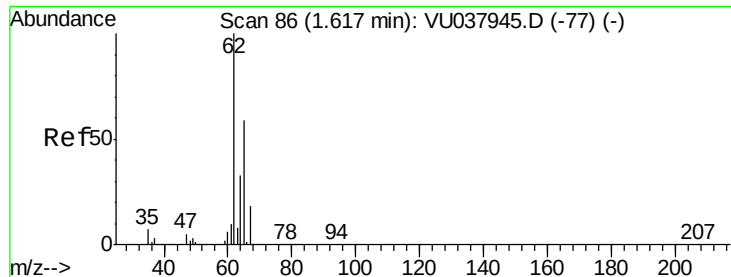
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 104.361 ug/L

RT: 1.61 min Scan# 85

Delta R.T. -0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

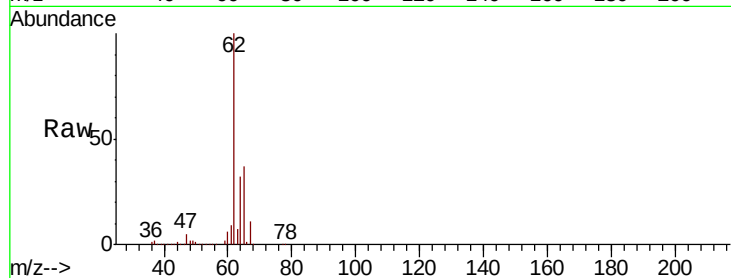
ClientSampleId :

Tot Ion: 62 Resp: 660823

Ion Ratio Lower Upper

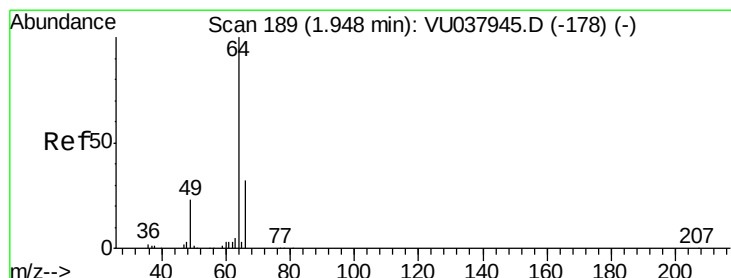
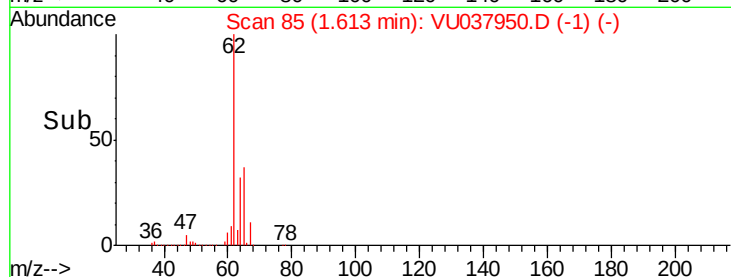
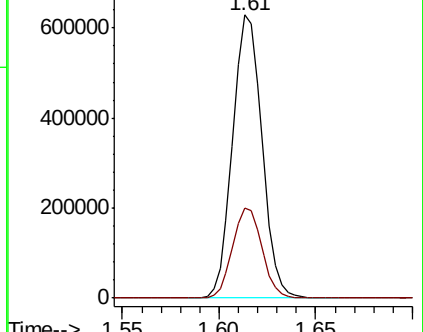
62 100

64 32.1 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VU037945.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU037945.D (-77) (-)



#8

Chloroethane

Concen: 68.276 ug/L

RT: 1.93 min Scan# 184

Delta R.T. -0.02 min

Lab File: VU037950.D

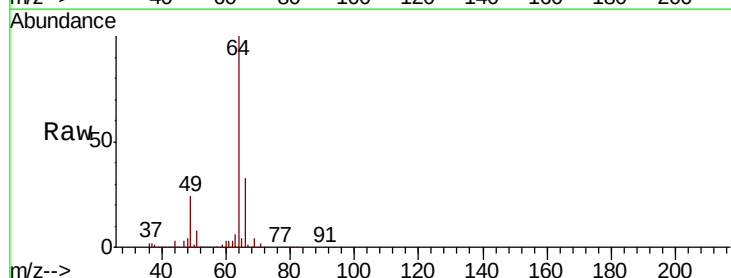
Acq: 30 Apr 2020 13:49

Tgt Ion: 64 Resp: 260006

Ion Ratio Lower Upper

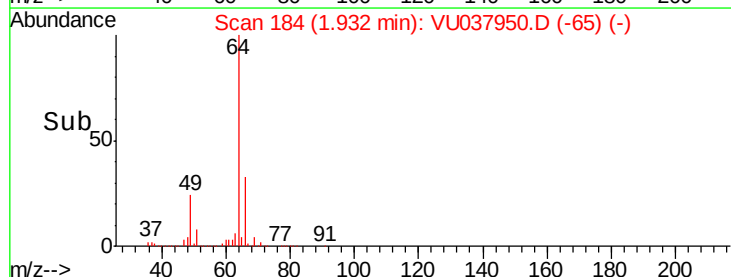
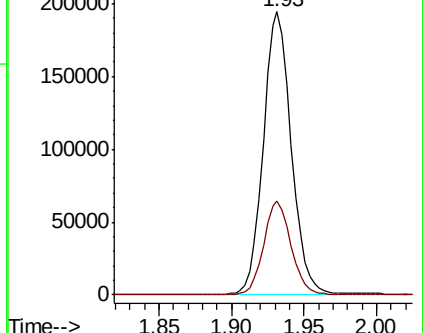
64 100

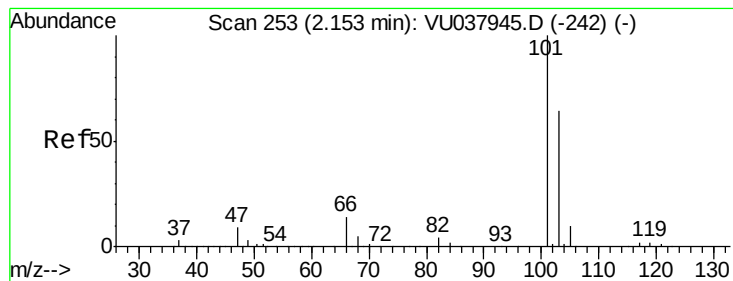
66 33.1 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU037945.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU037945.D (-178) (-)



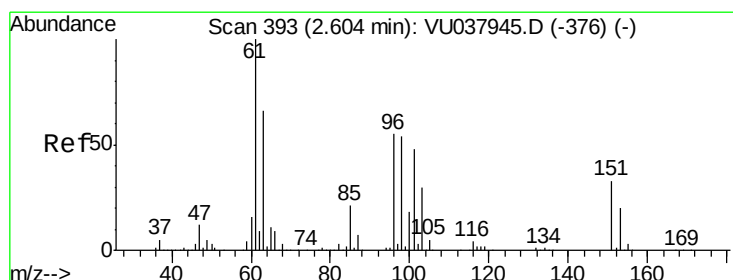
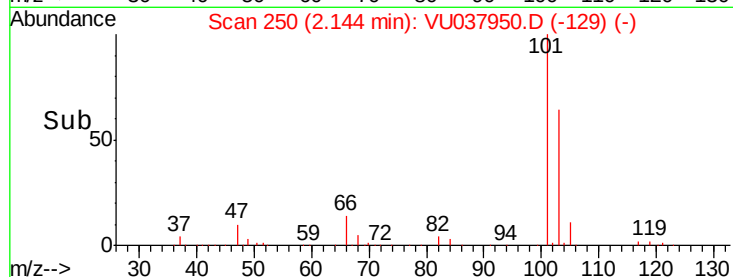
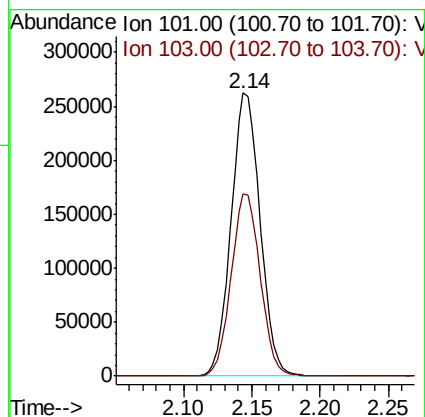
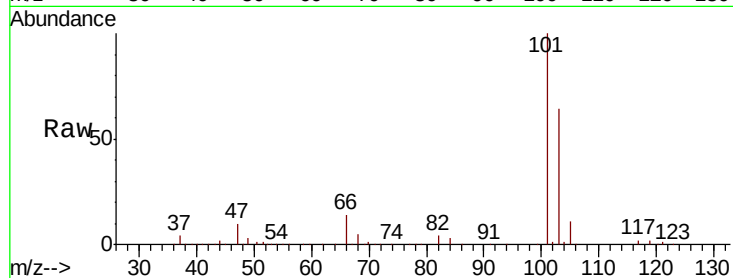


#9

Trichlorofluoromethane
 Concen: 58.916 ug/L
 RT: 2.14 min Scan# 250
 Delta R.T. -0.01 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampled :

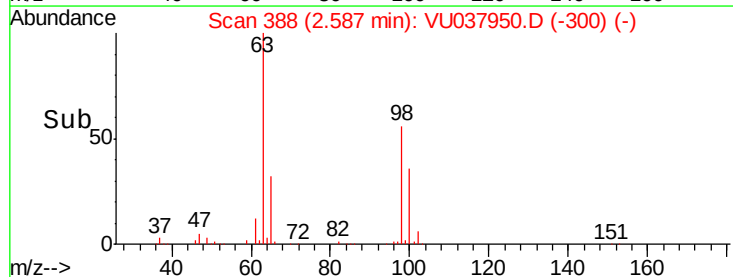
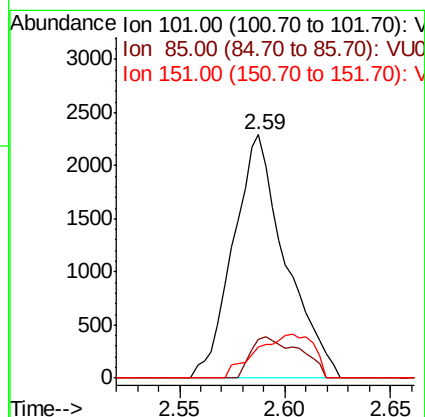
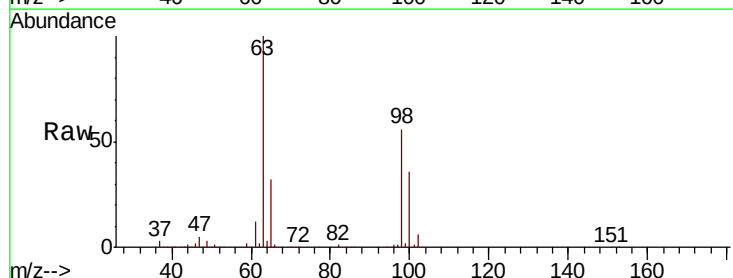
Tot Ion:101 Resp: 387743
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.4 77.0

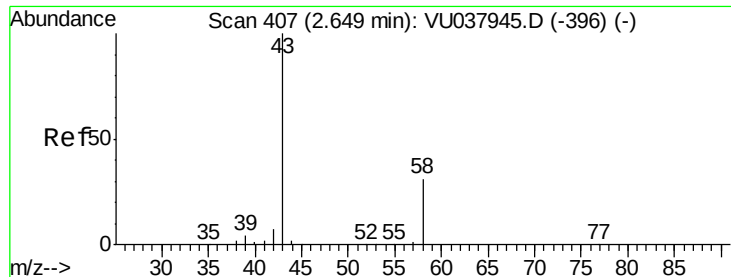


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.973 ug/L
 RT: 2.59 min Scan# 388
 Delta R.T. -0.02 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion:101 Resp: 3934
 Ion Ratio Lower Upper
 101 100
 85 10.4 34.7 52.1#
 151 19.8 53.4 80.2#





#13

Acetone

Concen: 4.083 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

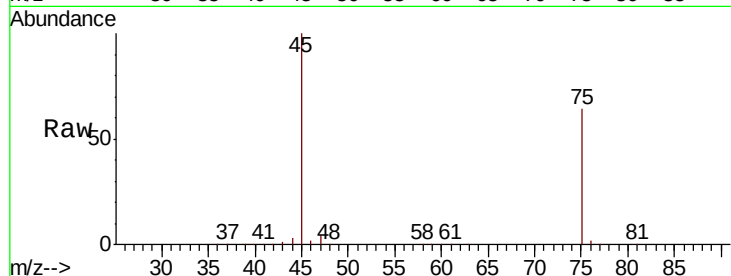
ClientSampleId :

Tot Ion: 43 Resp: 11427

Ion Ratio Lower Upper

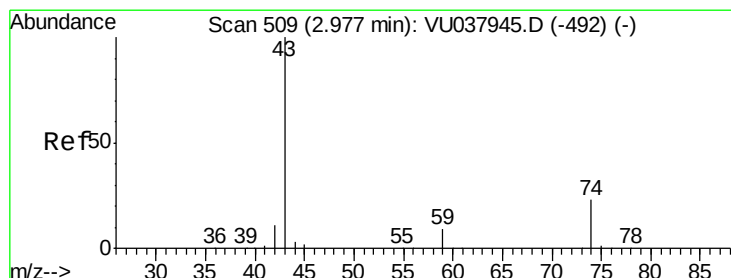
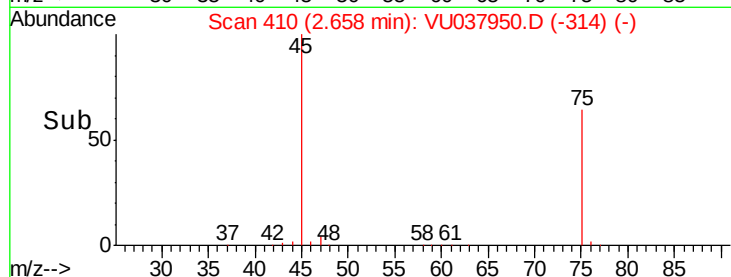
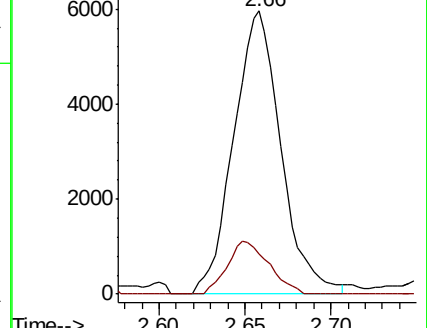
43 100

58 16.5 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU037945.D (-396) (-)

Ion 58.00 (57.70 to 58.70): VU037945.D (-396) (-)



#15

Methyl Acetate

Concen: 1.327 ug/L

RT: 2.98 min Scan# 509

Delta R.T. -0.00 min

Lab File: VU037950.D

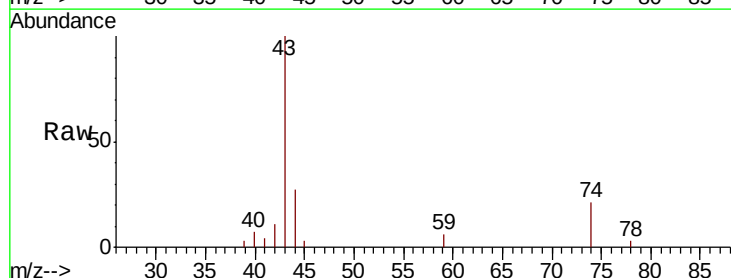
Acq: 30 Apr 2020 13:49

Tgt Ion: 43 Resp: 8086

Ion Ratio Lower Upper

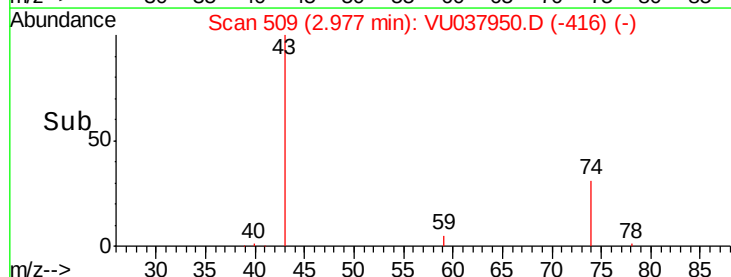
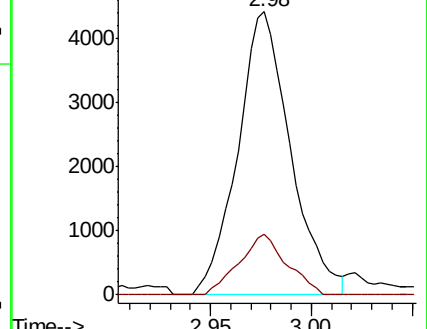
43 100

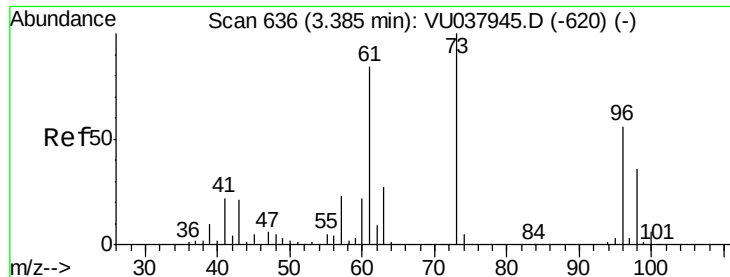
74 19.3 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VU037945.D (-492) (-)

Ion 74.00 (73.70 to 74.70): VU037945.D (-492) (-)





#17

trans-1,2-Dichloroethene

Concen: 57.366 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

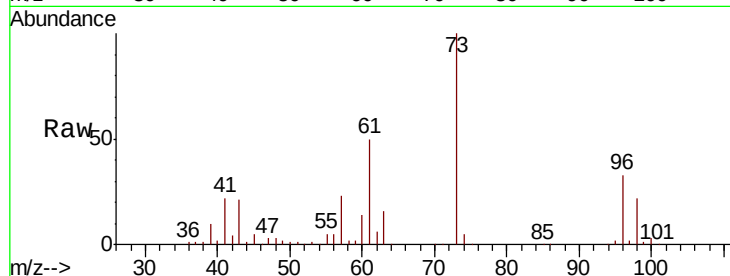
Tot Ion: 96 Resp: 256370

Ion Ratio Lower Upper

96 100

61 150.5 104.9 194.9

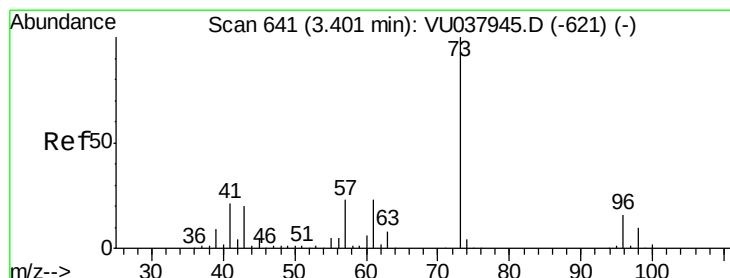
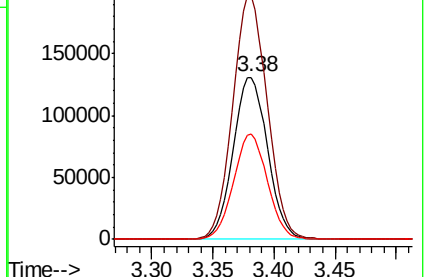
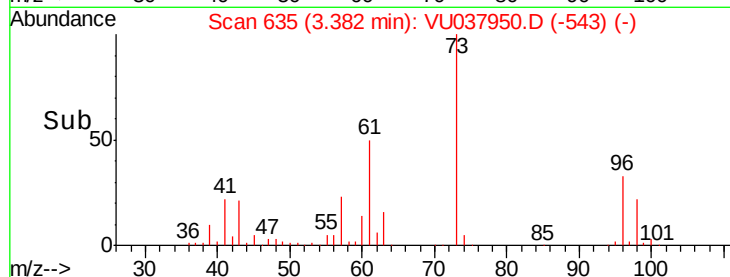
98 65.5 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU037950.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037950.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037950.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 102.840 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

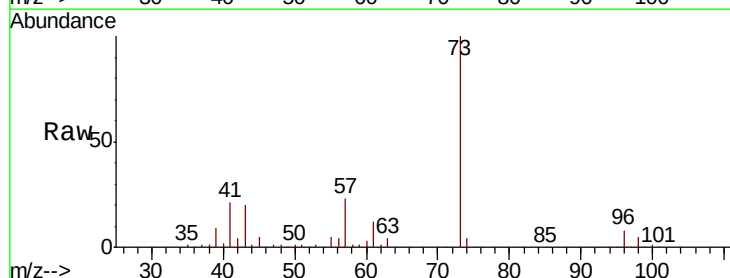
Tgt Ion: 73 Resp: 1529200

Ion Ratio Lower Upper

73 100

43 20.5 16.3 24.5

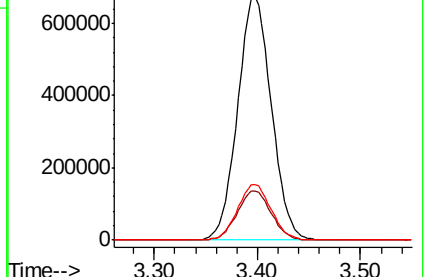
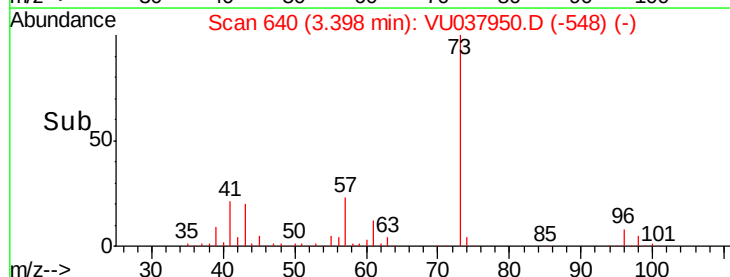
57 22.8 18.4 27.6

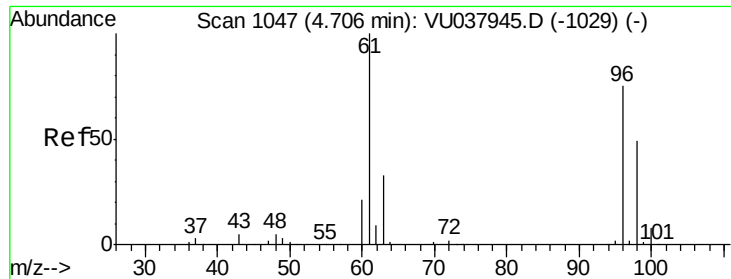


Abundance Ion 73.00 (72.70 to 73.70): VU037950.D (-548) (-)

Ion 43.00 (42.70 to 43.70): VU037950.D (-548) (-)

Ion 57.00 (56.70 to 57.70): VU037950.D (-548) (-)

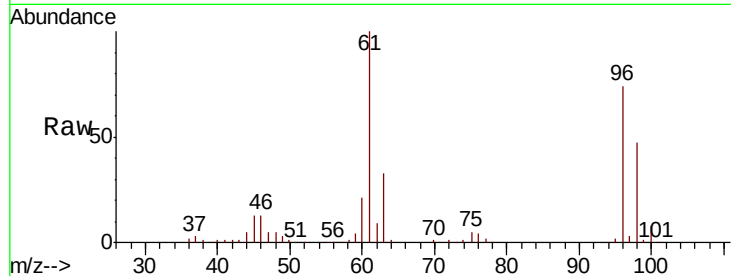




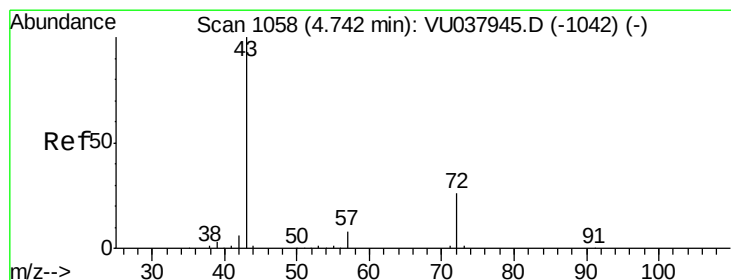
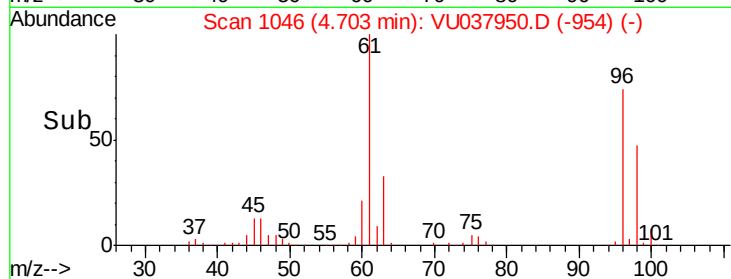
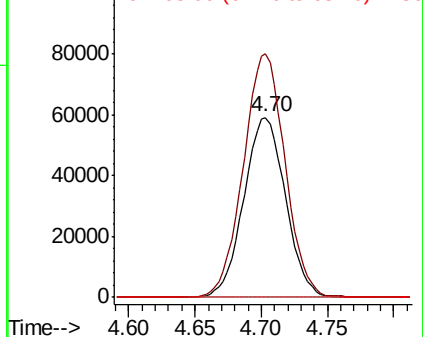
#20
 cis-1,2-Dichloroethene
 Concen: 26.196 ug/L
 RT: 4.70 min Scan# 1046
 Delta R.T. -0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 129445
 Ion Ratio Lower Upper
 96 100
 61 135.2 93.9 174.3
 68 0.0 0.0 0.0

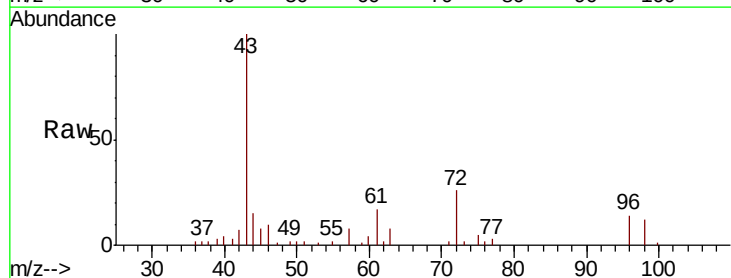


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

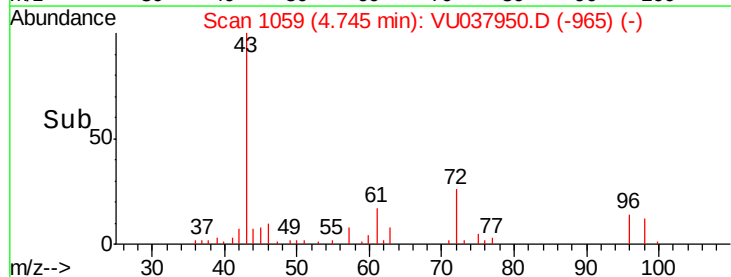
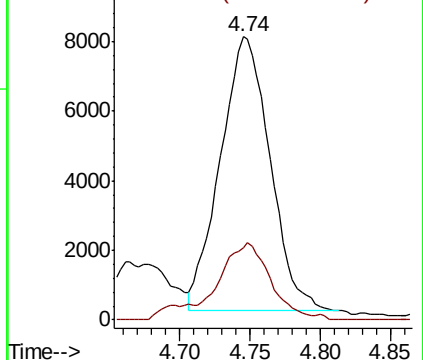


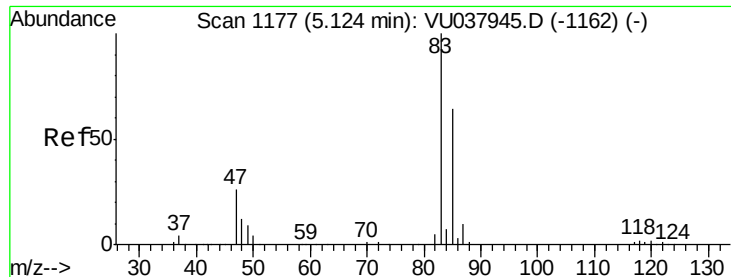
#22
 2-Butanone
 Concen: 4.285 ug/L
 RT: 4.74 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion: 43 Resp: 19408
 Ion Ratio Lower Upper
 43 100
 72 27.5 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 72.00 (71.70 to 72.70): VU0

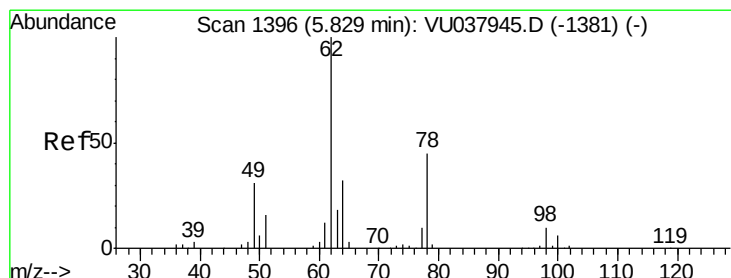
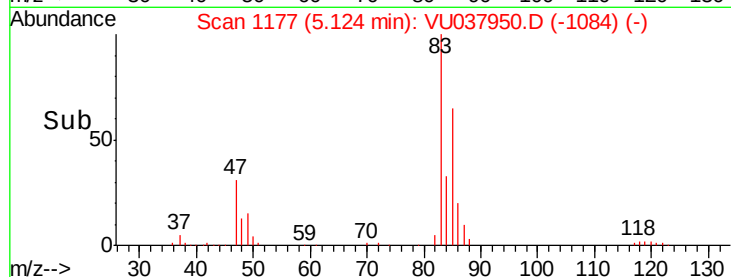
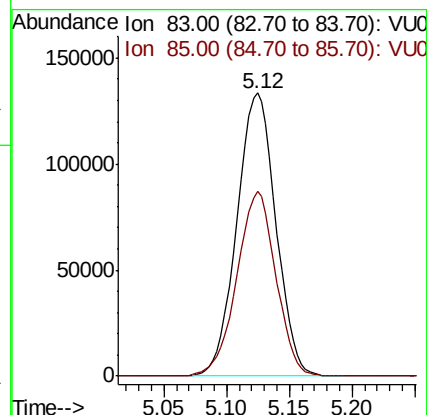
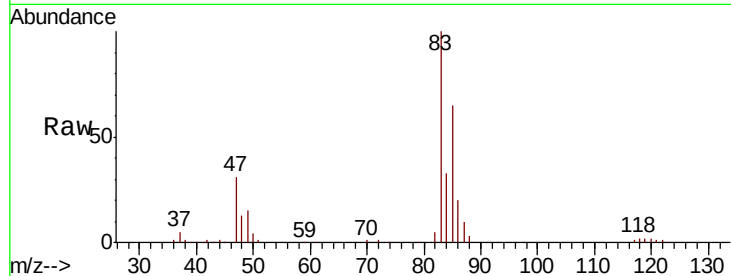




#25
Chloroform
Concen: 33.773 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

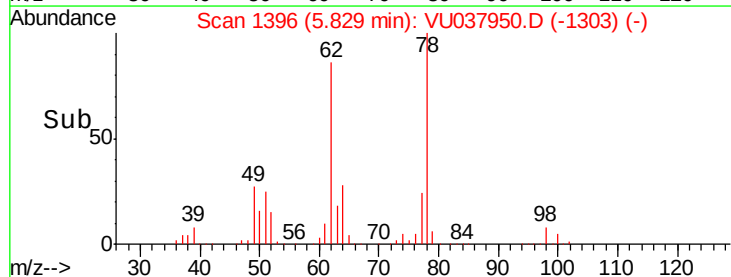
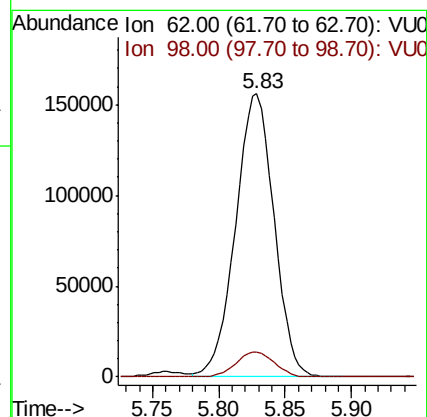
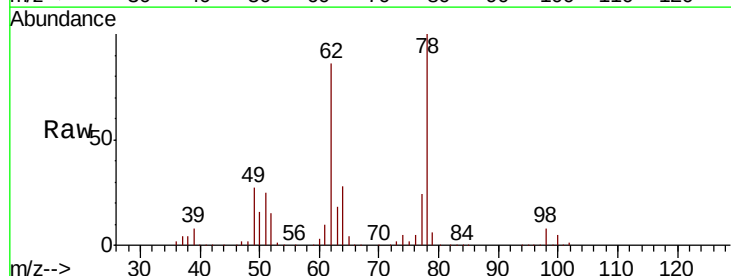
Instrument :
MSVOA_U
ClientSampled :

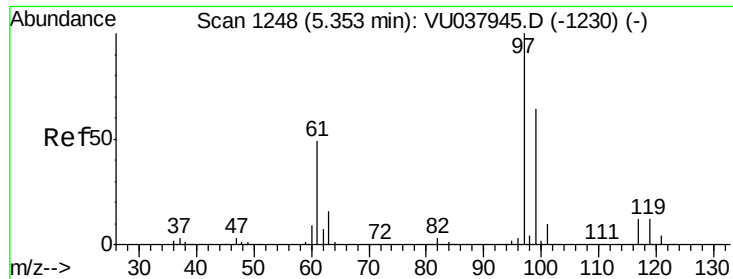
Tot Ion: 83 Resp: 288617
Ion Ratio Lower Upper
83 100
85 65.3 45.0 83.6



#27
1,2-Dichloroethane
Concen: 44.350 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Tgt Ion: 62 Resp: 313400
Ion Ratio Lower Upper
62 100
98 9.0 7.6 11.4

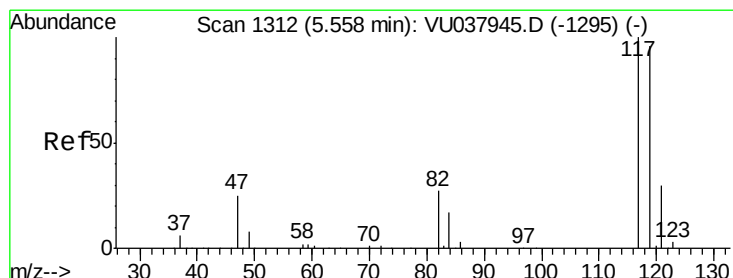
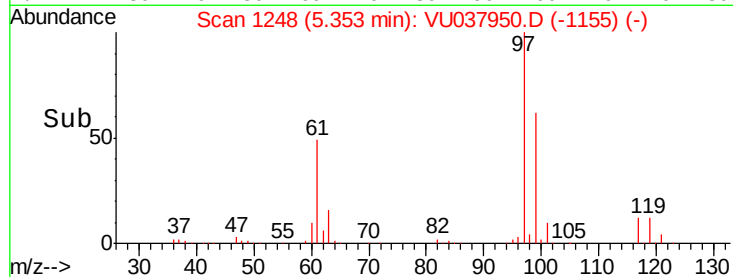
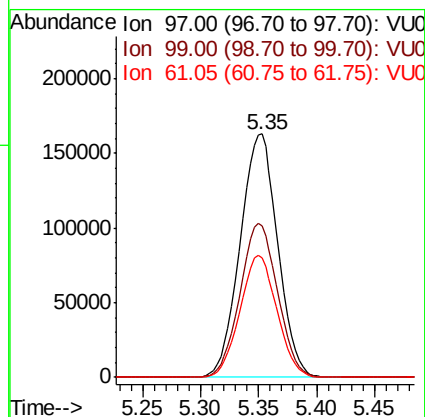
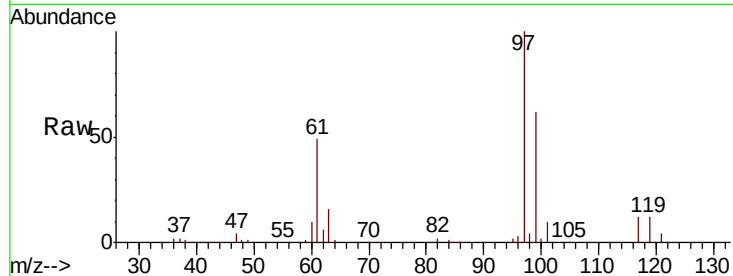




#30
 1,1,1-Trichloroethane
 Concen: 52.434 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

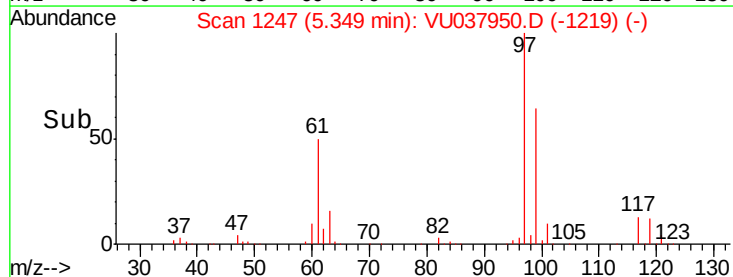
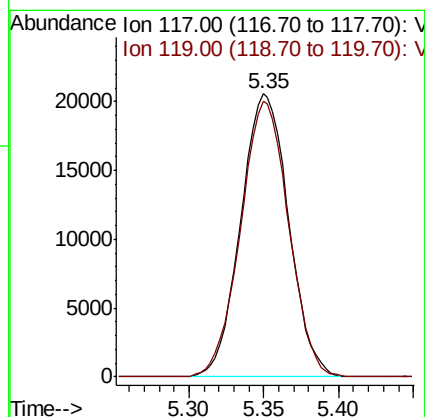
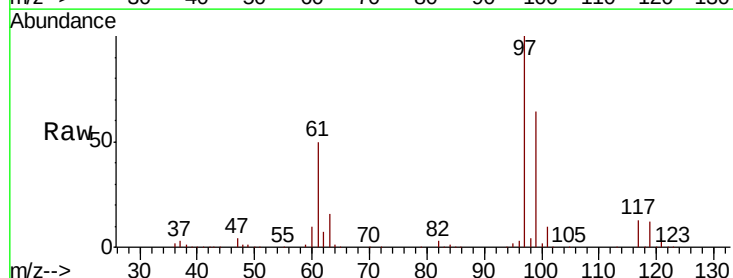
Instrument :
 MSVOA_U
 ClientSampled :

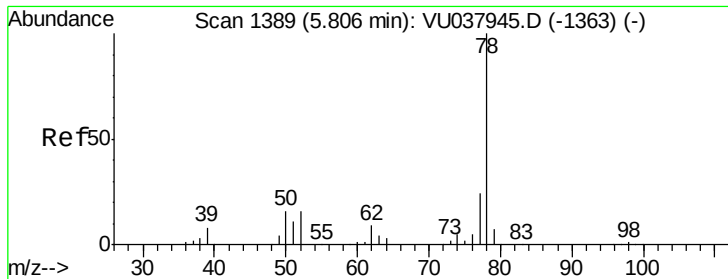
Tot Ion: 97 Resp: 366730
 Ion Ratio Lower Upper
 97 100
 99 63.3 50.5 75.7
 61 49.4 38.8 58.2



#31
 Carbon tetrachloride
 Concen: 8.292 ug/L
 RT: 5.35 min Scan# 1247
 Delta R.T. -0.21 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion: 117 Resp: 45781
 Ion Ratio Lower Upper
 117 100
 119 97.6 76.7 115.1





#33

Benzene

Concen: 73.625 ug/L

RT: 5.81 min Scan# 1389

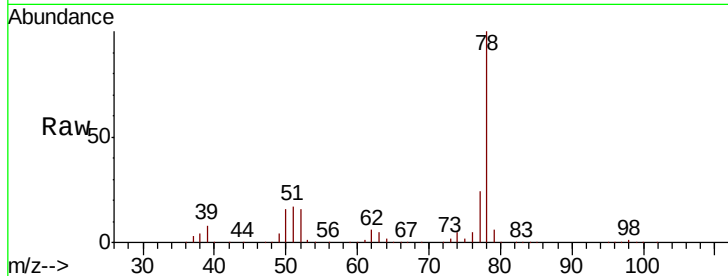
Delta R.T. -0.00 min

Lab File: VU037950.D

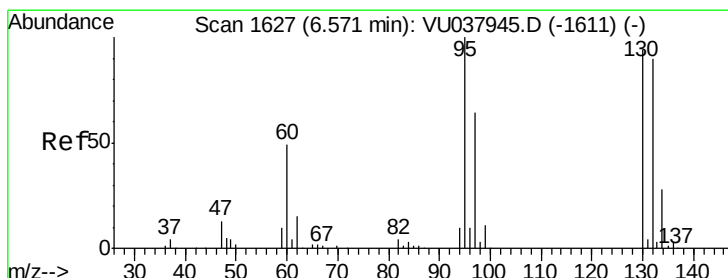
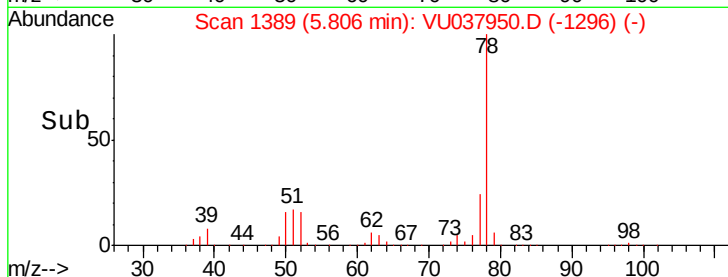
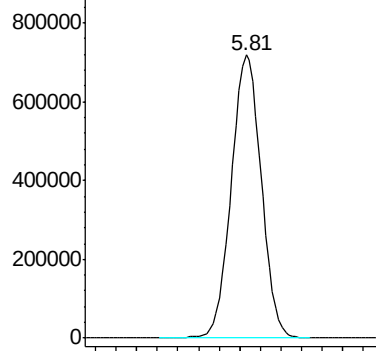
Acq: 30 Apr 2020 13:49

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 1448210



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 96.275 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Tgt Ion: 95 Resp: 459208

Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.9	83.5
132	88.5	63.2	117.4
130	95.1	65.9	122.3

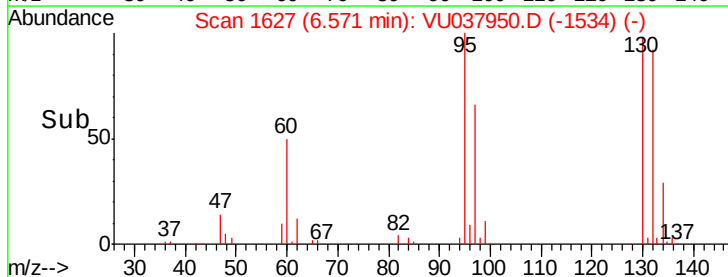
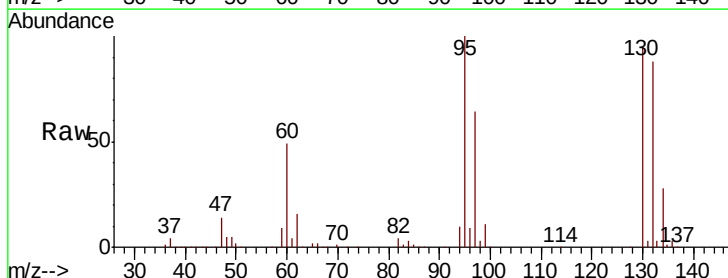
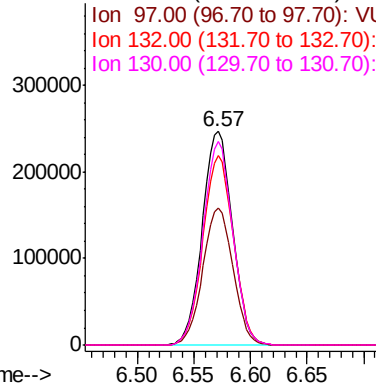
Ion 95.00 (94.70 to 95.70): VU0

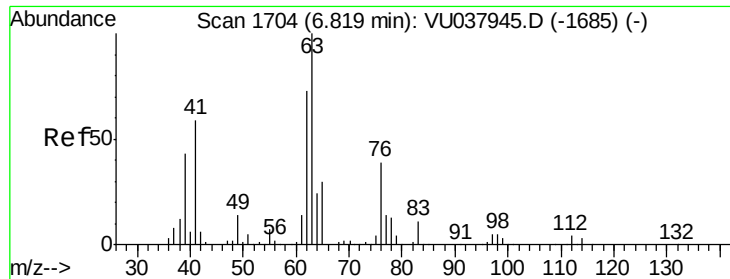
Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

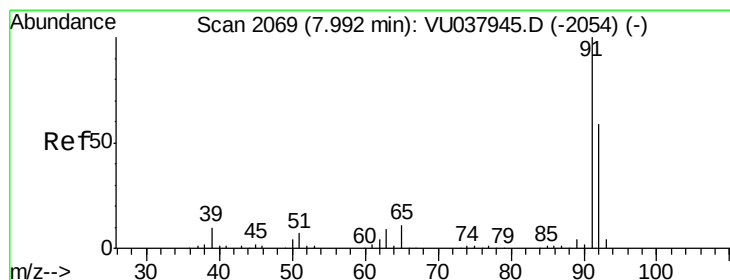
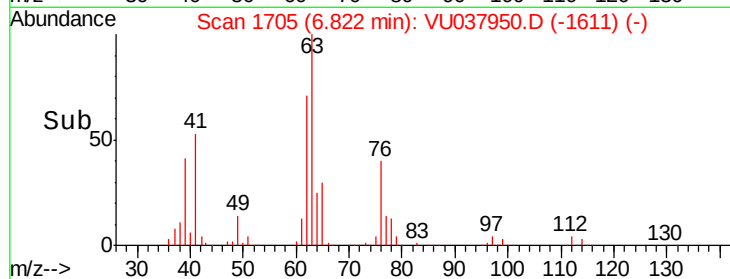
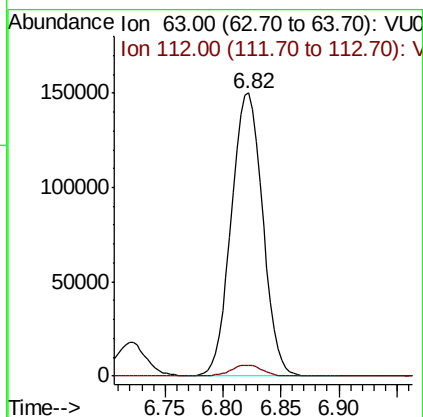
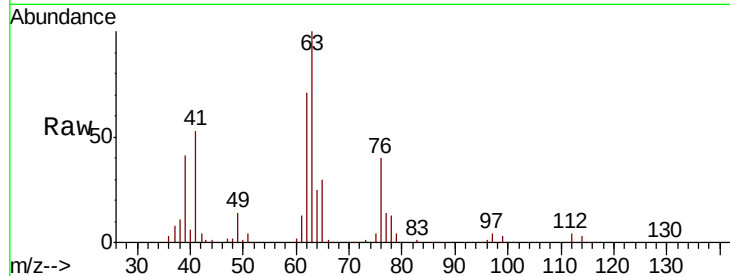




#37
 1,2-Dichloropropane
 Concen: 53.649 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

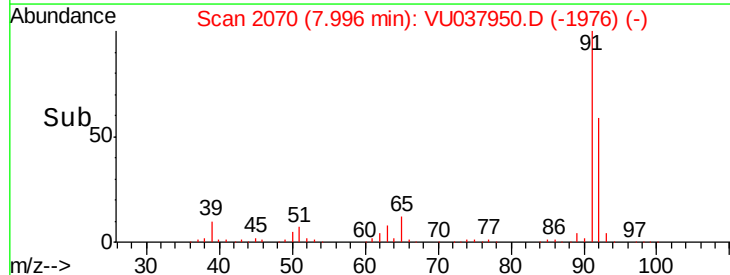
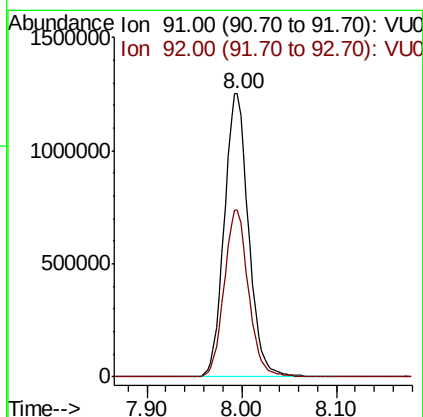
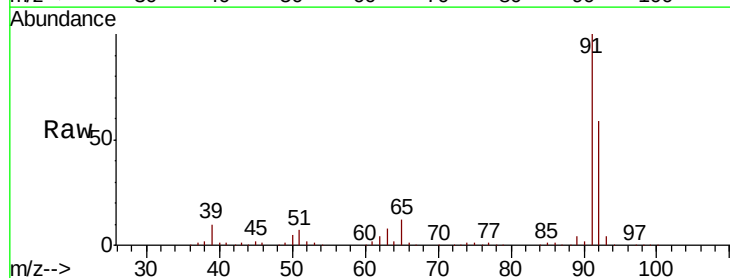
Instrument :
 MSVOA_U
 ClientSampleId :

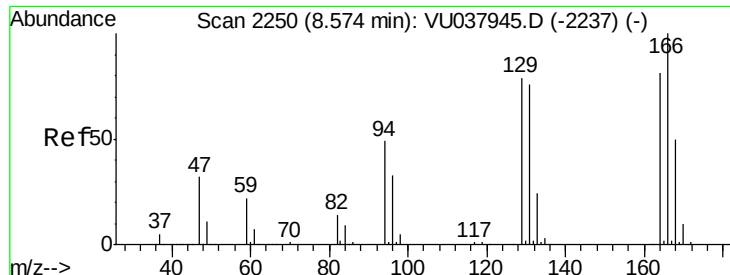
Tot Ion: 63 Resp: 282138
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#42
 Toluene
 Concen: 107.880 ug/L
 RT: 8.00 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion: 91 Resp: 2229439
 Ion Ratio Lower Upper
 91 100
 92 58.8 41.5 77.1

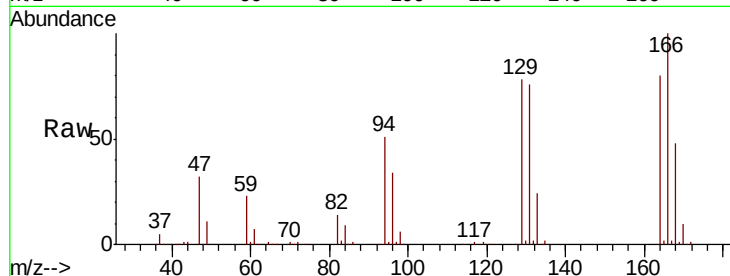




#46
Tetrachloroethene
Concen: 70.472 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. -0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
164	100		
129	97.3	68.4	127.0
131	95.1	65.7	122.1
166	125.3	86.7	161.1



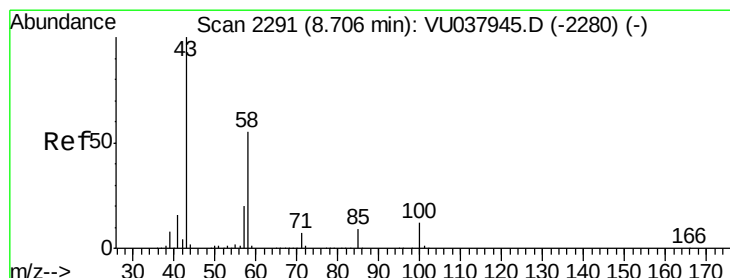
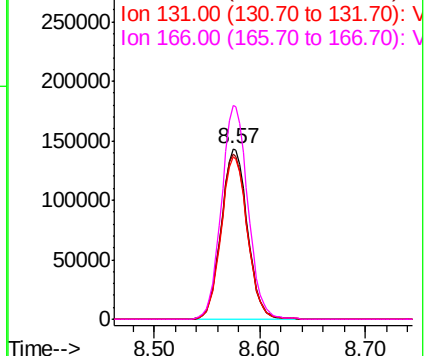
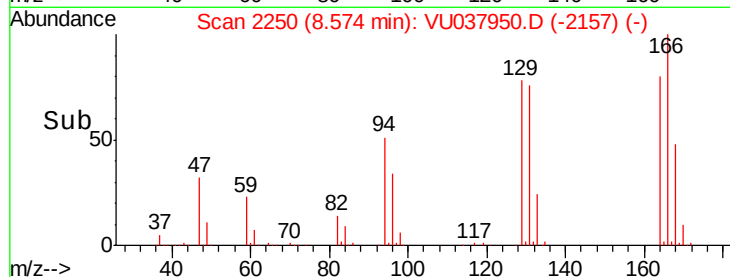
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

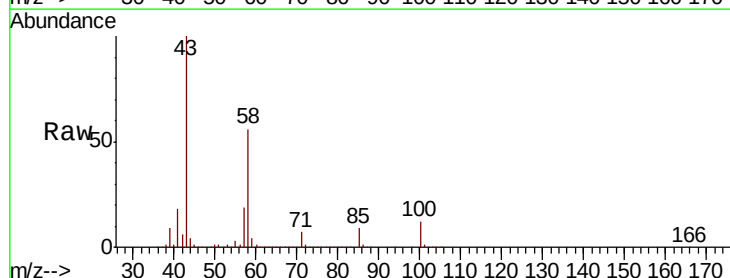
Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48
2-Hexanone
Concen: 150.885 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	56.5	46.4	69.6
57	19.4	16.4	24.6
100	11.7	9.5	14.3



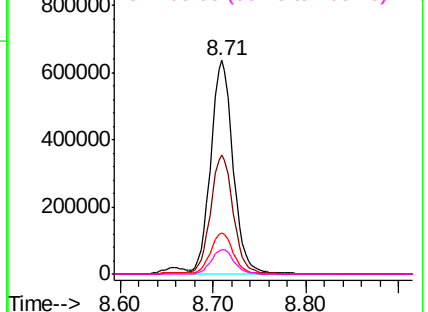
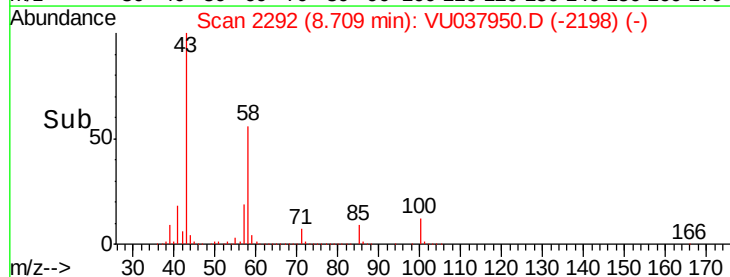
Abundance

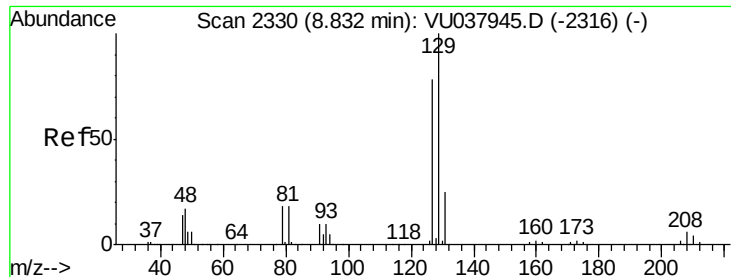
Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 19.233 ug/L

RT: 8.83 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

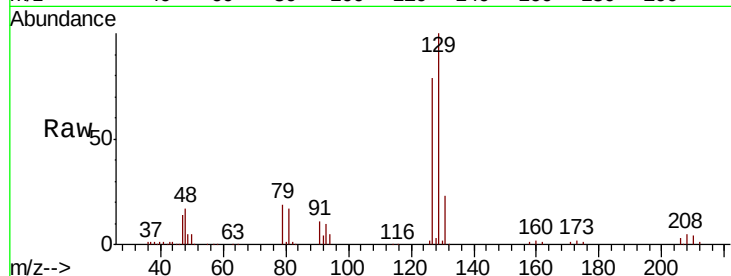
ClientSampleId :

Tot Ion:129 Resp: 88347

Ion Ratio Lower Upper

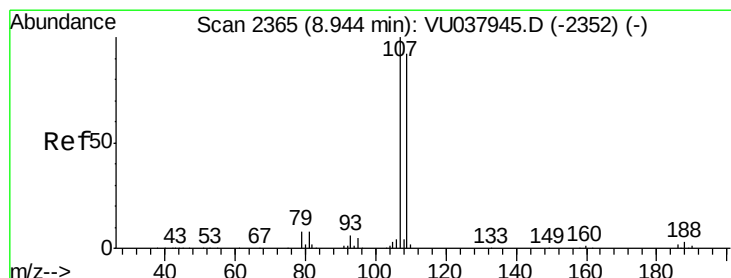
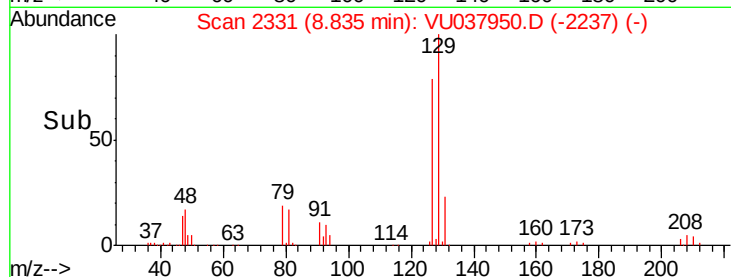
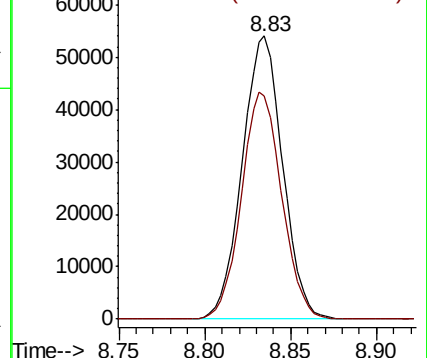
129 100

127 78.8 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 91.606 ug/L

RT: 8.95 min Scan# 2366

Delta R.T. 0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

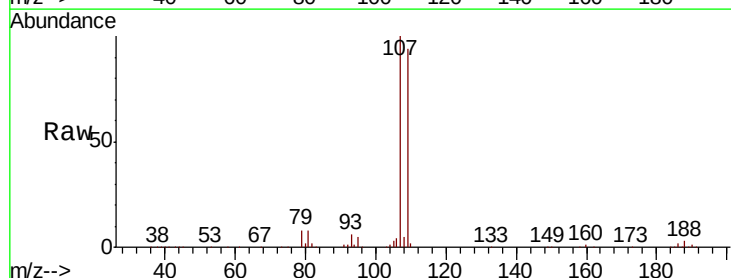
Tgt Ion:107 Resp: 468702

Ion Ratio Lower Upper

107 100

109 94.2 64.1 119.1

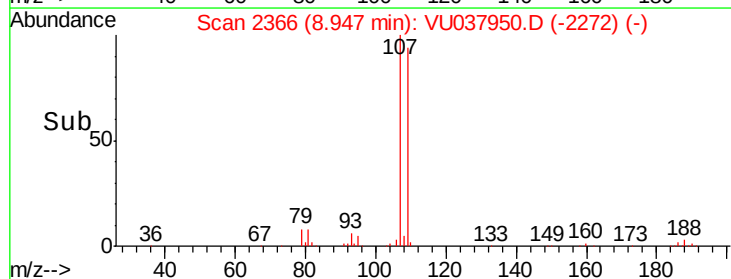
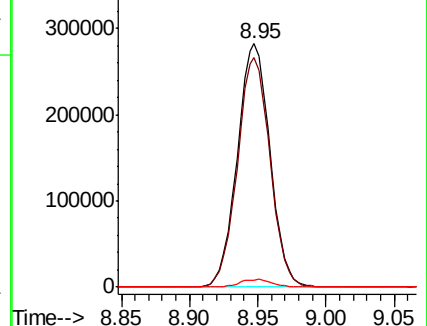
188 3.1 2.2 3.2

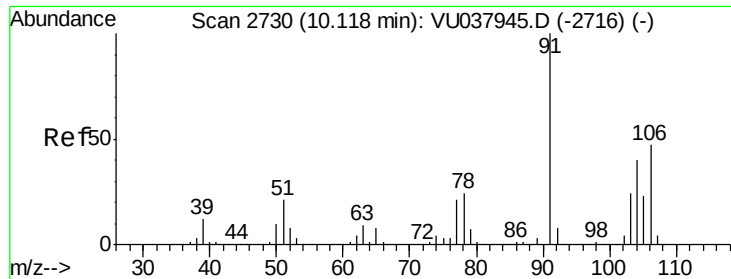


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

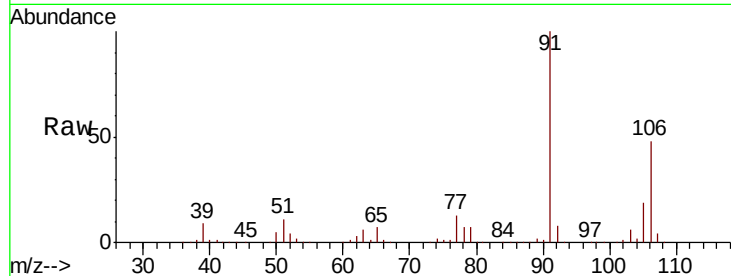




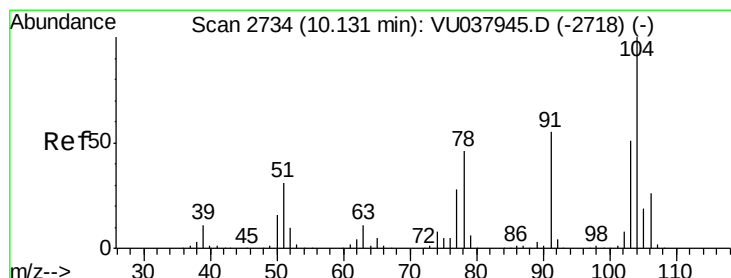
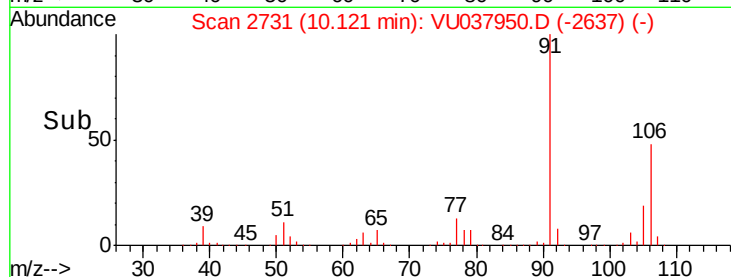
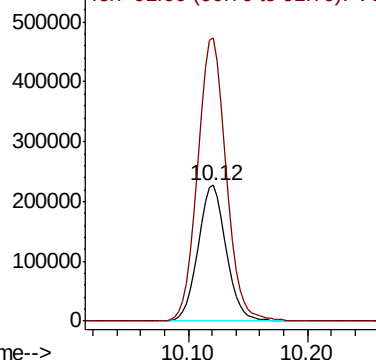
#54
o-xylene
Concen: 43.381 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 371504
Ion Ratio Lower Upper
106 100
91 208.3 149.4 277.4

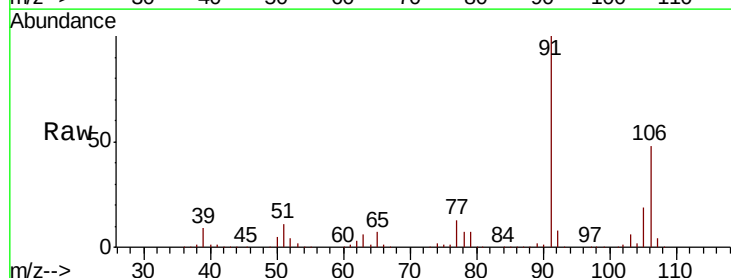


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

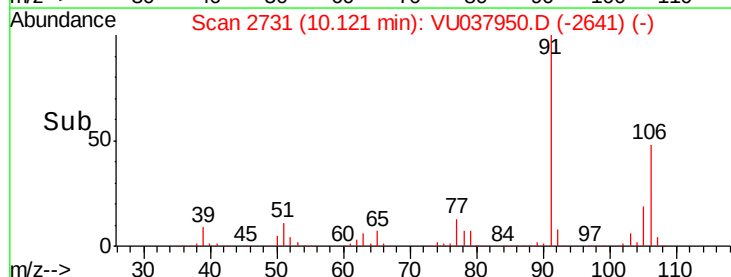
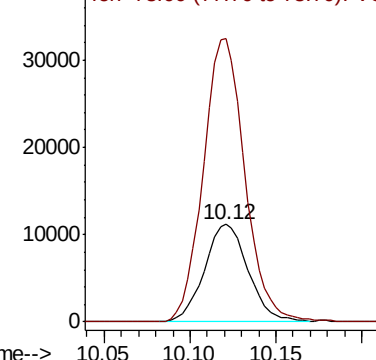


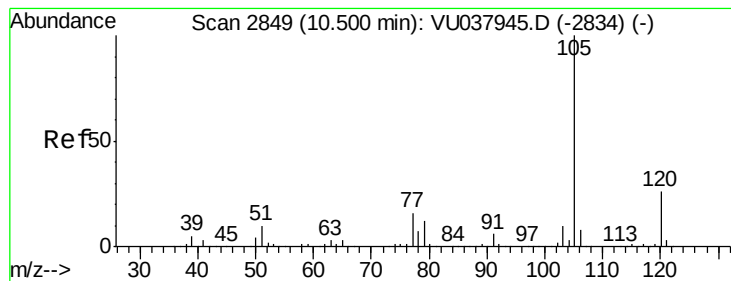
#55
Styrene
Concen: 1.365 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.01 min
Lab File: VU037950.D
Acq: 30 Apr 2020 13:49

Tgt Ion:104 Resp: 19854
Ion Ratio Lower Upper
104 100
78 289.9 32.3 60.1#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 73.781 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037950.D

Acq: 30 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampled :

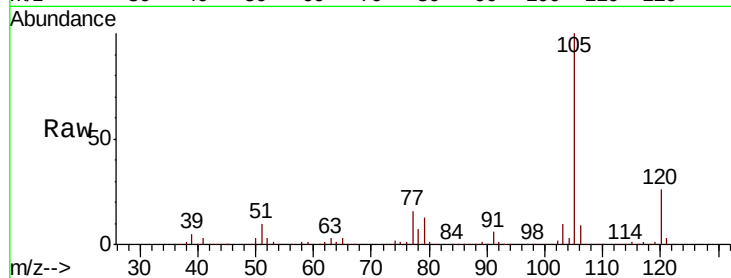
Tot Ion:105 Resp: 1626899

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

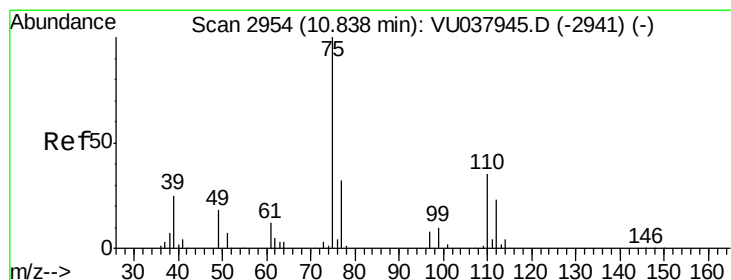
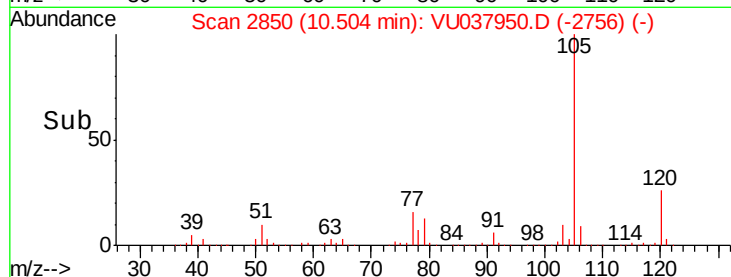
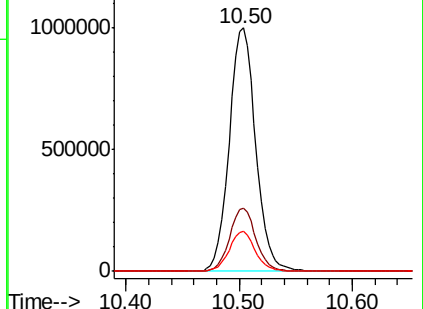
77 16.2 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 6.185 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.99 min

Lab File: VU037950.D

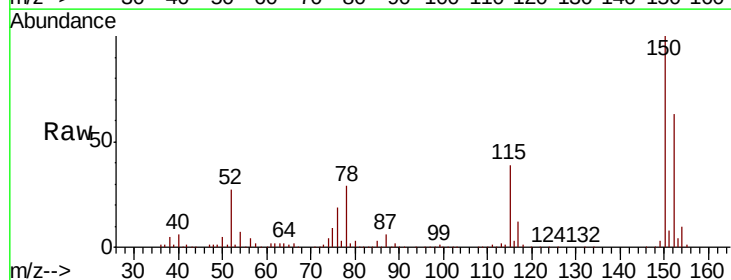
Acq: 30 Apr 2020 13:49

Tgt Ion: 75 Resp: 45099

Ion Ratio Lower Upper

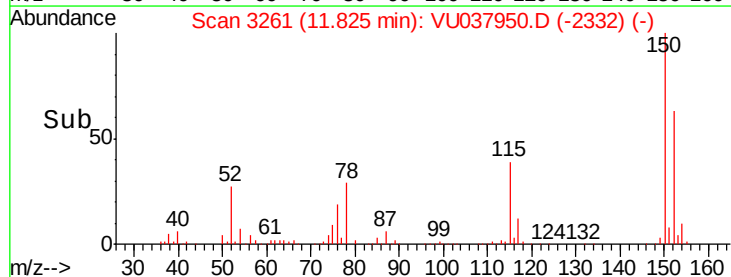
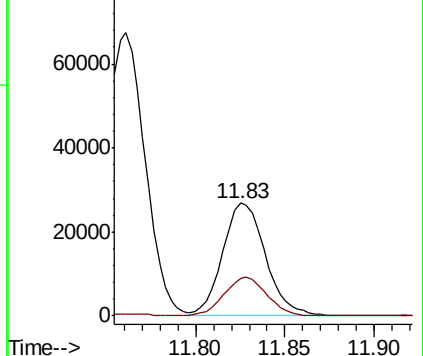
75 100

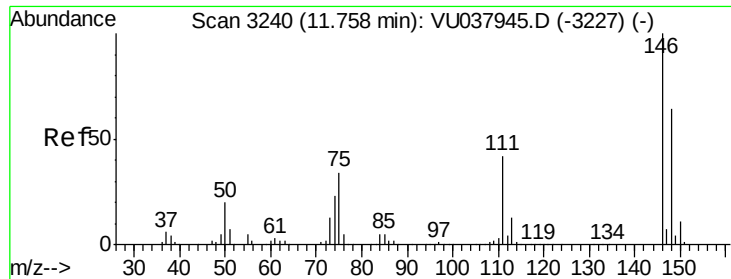
77 34.3 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

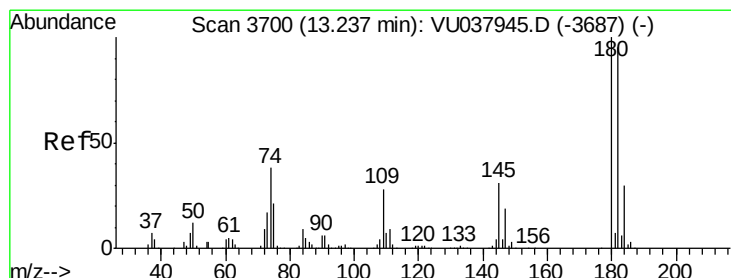
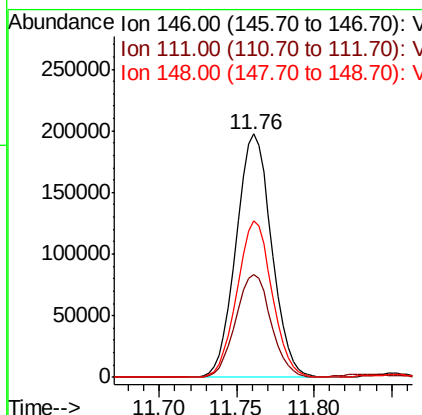
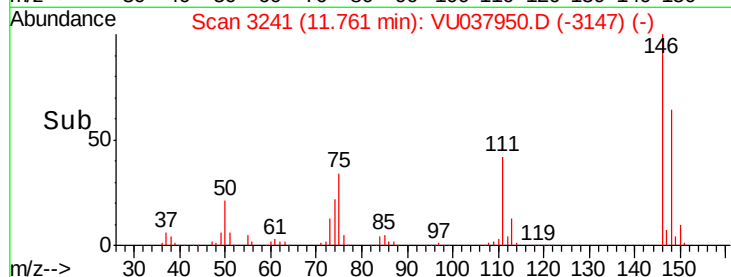
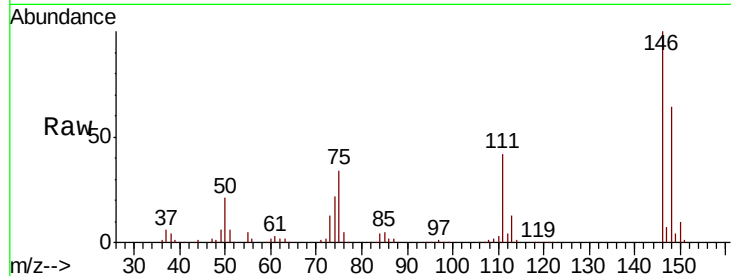




#62
 1,3-Dichlorobenzene
 Concen: 32.326 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

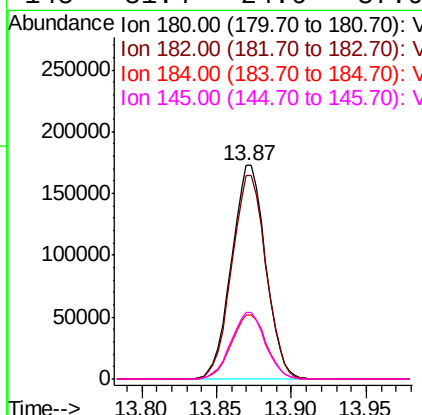
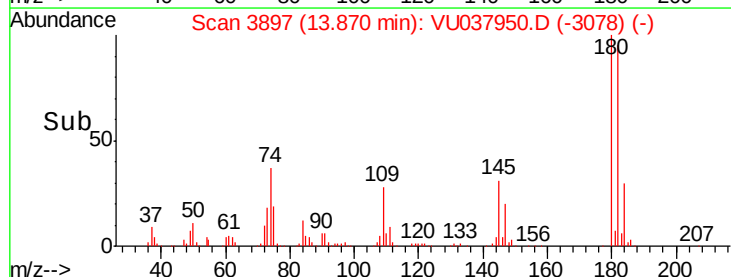
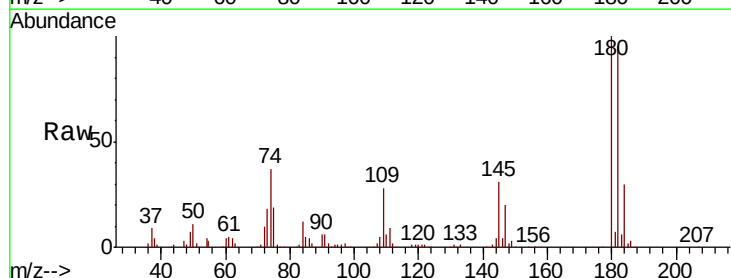
Instrument :
 MSVOA_U
 ClientSampled :

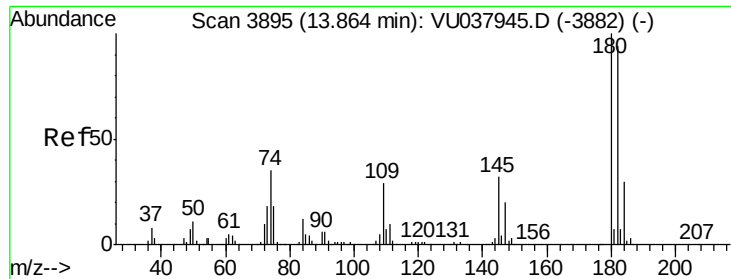
Tot Ion:146 Resp: 315145
 Ion Ratio Lower Upper
 146 100
 111 42.5 29.2 54.2
 148 64.3 44.9 83.5



#67
 1,3,5-Trichlorobenzene
 Concen: 41.244 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.63 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Tgt Ion:180 Resp: 274114
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.7 113.5
 184 30.6 24.2 36.2
 145 31.4 24.6 37.0

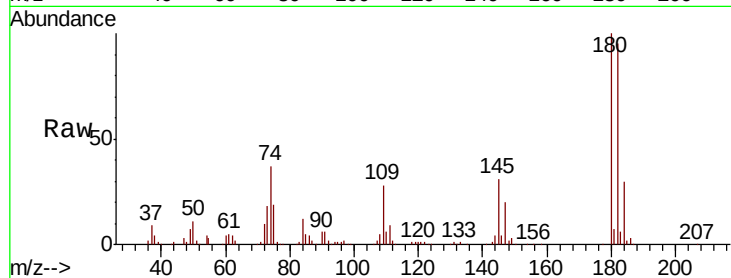




#68
 1,2,4-trichlorobenzene
 Concen: 43.029 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.01 min
 Lab File: VU037950.D
 Acq: 30 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	95.9	75.4	113.0	
145	31.4	25.3	37.9	



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

